

Mexico National Emissions Inventory

A new tool for decision making

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Background

■ La Paz Agreement (late 1980s)



Background

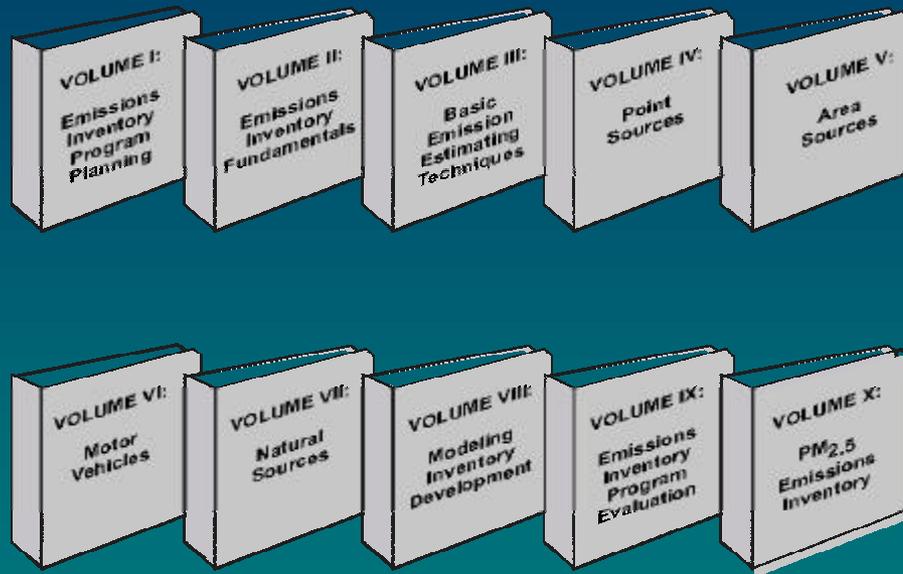
- Started in 1995
- 1996-2000
 - Capacity building
 - ❖ Training and Workshops
 - ❖ Technical studies (Mobile 5 Mexico, e.g.)
 - Methodology Testing
 - ❖ Manuals
 - ❖ Advanced Workbooks
 - ❖ Inventories for Tijuana and Mexicali

Background: 1996-2000

■ Objectives

- Capacity building
 - ❖ Training and Workshops
 - ❖ Technical studies (Mobile 5 Mexico, e.g.)
- Methodology Testing
 - ❖ Manuals
 - ❖ Advanced Workbooks
 - ❖ Inventories for Tijuana and Mexicali
 - ❖ Aguascalientes Motor Vehicle Study

Background : Emission Inventory Manuals



I. Emissions Inventory Program Planning

II. Emissions Inventory Fundamentals*

* Concluded

III. Basic Emissions Estimating Techniques*

IV. Point Sources*

V. Area Sources*

VI. Motor Vehicles*

VII. Natural Sources *

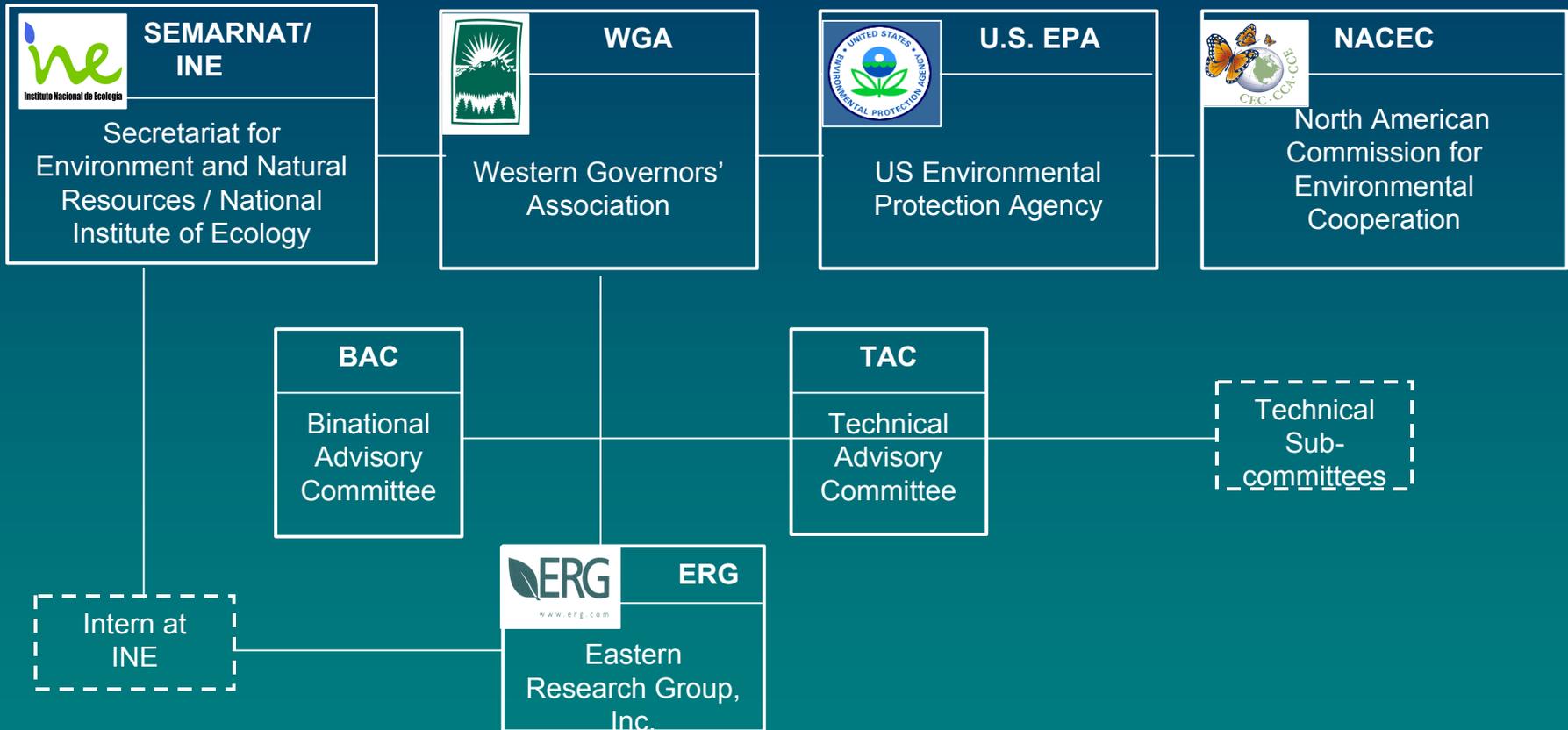
VIII. Modeling Inventory Development*

IX.- Emissions Inventory Progress Evaluation

X. PM_{2.5} Emissions Inventory



Organization



Project Scope

- Mexico National Emissions Inventory Project (NEI)
- Emissions Inventory Manuals
- Other studies:
 - Technical Studies
 - NONROAD-Mexico Model Development

Mexico NEI Objectives

- Develop the first National Emissions Inventory for Mexico to help institutional efforts in the areas of air quality and health impacts.
- Comply with Federal Environmental Law mandate to integrate and update a National Emissions Inventory for Mexico
- Support NACEC efforts in the development of a regional emissions inventory.
- Promote institutional capacity-building.
- Support regional haze compliance in border US states.



Inventory Scope

- Point, area, biogenic and mobile sources
- Base year: 1999
- Pollutants of interest: NO_x , SO_x , VOCs, CO, PM_{10} , $\text{PM}_{2.5}$ and NH_3
- Coverage
 - Phases I, II: Border States (June/03)
 - Phase III: Rest of the country + MCMA (June/04)
 - State and municipal level

Institutional issues

■ Point sources

- Federal vs. state jurisdiction
- Different reporting requirements
- Different formats

■ Strategy

- Participation of SEMARNAT “delegaciones” and local authorities in the TAC
- Close communication with local authorities via the state “delegaciones” (letters and meetings)

Stakeholders issues

- Government stakeholders
 - PEMEX : fuel production, distribution and use, 4 different companies
 - Energy, transport and agriculture secretariats
 - National Institute of Statistics, Geography and Information Technology (INEGI)
- Strategy
 - Identified key representatives
 - Meetings and personal follow-up

Stakeholder issues

- Non-government stakeholders
 - Manufacture, distribution and use of products (mainly solvents)
 - No reporting requirement
 - RETC issue
- Strategy
 - Identify and contact leading trade associations
 - Meetings, reports on progress and personal follow-up
 - Agreed on estimation criteria

Outcomes

■ Technical:

- Valuable product for local authorities
- Useful for universities and research institutions in air quality and health applications
- Primary input for nation-wide air quality management strategies
- Solid baseline to assess control scenarios

Outcomes

■ Other:

- Better integration within SEMARNAT and with local environmental authorities
- Better communication with other government entities
- Better understanding of the inventory outside SEMARNAT

Challenges

- Continue air quality management efforts such as the PROAIRES in several cities
- Assess the quality of existing emissions databases and set priorities for improvement
- Build national capacity for inventory management
- Improve data management at Delegaciones and local governments
- Promote more efficient data collection with trade associations and private stakeholders

Contacts

■ Technology Transfer Network (USEPA)

US – México Border Information Center on Air Pollution (bilingual)

–English <http://www.epa.gov/ttn/catc/cica/cicaeng.html>

–Spanish <http://www.epa.gov/ttn/catc/cica/cicaspa.html>

■ Project website

<http://www.erg.com/mnei>

Id: mexico; password: emissions

■ INE's website

http://www.ine.gob.mx/dgicurg/calaires/lineas/inventario_nacional.html

Email: villale@ine.gob.mx; vgaribay@ine.gob.mx



Thank you

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